

# MAGNETIC STORM SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS (PRELIMINARY REPORT ON RAPID MAGNETIC VARIATIONS)

April 2004

Storm Sudden Commencements (SSC)			Solar Flare Effects (sfe)		
Day	Time	Quality: Station Group*	Day	Begin-End	Station(s)
03	0946	B: ESK* VAL HAD* C: LER* NGK* BDV* GCK SPT* HYB	01	1243-1307	NAG
			04	1457-1508	NGK+ GUI
			11	2024-2107	GUI
03	1410	A: COI GUI* B: LER* ESK* HAD* CLF* NAG* SPT C: NGK* BDV* EBR*	12	0508-0528	HYB
			12	1817-1910	GUI
09	0233	A: NAG* COI GUI B: LER ESK HAD EBR C: NGK* BDV* SPT			
10	2010	A: CLF* GUI* B: BDV* EBR HYB GNA C: LER* ESK* NGK* HAD* NAG* SI: VAL			
24	0857	B: SOD* SI: LER* ESK* HAD*			
26	1604	A: LER* ESK* HAD* CLF GUI B: SPT* HYB C: SOD* NGK* BDV* HRB SI: VAL			

## REPORTING OBSERVATORIES (up to the 7th of June 2004):

SOD NUR LER ESK NGK VAL HAD BDV CLF HRB NAG GCK EBR COI SPT HTY GUI HYB GNA CNB

Three-letter codes identify each observatory. Reporting stations have been grouped by the character of the observed event. The letter A means very remarkable; B means fair, but unmistakable; C means very poor, doubtful; and - means no quality figure given. The \* means that the SSC, at least in one component, was preceded by a small reversed impulse. SSCs are given only when five or more stations report the event. SFEs include all reports. If an SFE is confirmed by solar or ionospheric events, the name of the station is identified with a plus sign (+).

Note that we have included data of the Antarctic Station LIVINGSTONE (62° 39' 44" S, 60°23' 41" W) -- Luis F.

## Criterion on Provisional SSC data

From December 2002, we are giving as provisional SSC only the SSC reported by more than 4 observatories. This is a change with respect to the previous criterion according to which we used to give the SSC reported by more than 5 observatories. The change, pending IAGA confirmation, has been provisionally taken because of the decreasing number of reporting observatories in order to keep the homogeneity of the data. The idea is to keep the same minimum percentage of the observatories reporting an SSC, relative to the total number of reporting observatories, to be considered as a probable SSC.